

## **PERISTALTIC PRECISION METERING DEVICE, SYSTEM AND METHOD OF USE THEREOF**

### **Abstract of the Disclosure**

The invention relates generally to a peristaltic precision metering device, system  
and method of using the same. Disclosed is a metering device which includes a metering  
element that can engage with a compressible material line, wherein the metering device  
can place a selectable peristaltic effect upon the material in the line. ~~Also disclosed is a~~ precision metering system that includes a ~~material delivery unit comprised of a material~~ reservoir, ~~material dispensing end,~~ and a compressible material line connecting the two, a  
base; and, a metering element that engages the material line between itself and the base;  
and the metering element places a peristaltic effect on the material in the line, from which  
a selectable unit of material is caused to be dispensed from the dispensing end. ~~Also~~ disclosed is a metering device comprised of a ~~slidable or rotatable metering element that~~ can engage with a compressible material line, and when ~~slid or rotated~~ places a peristaltic  
effect upon material in the line, further causing precision dispensing of a unit of material.  
~~Also disclosed is a metering system comprised of a metering device similar to above and~~ a control system attached to the metering element and a robotic positioning system also  
attached to the metering device. Finally disclosed is a method of precision material  
dispensing comprised of providing a metering element and base, positioning a  
compressible material line between the metering element and base, moving one of the  
base, metering element, material line, or combination thereof, thereby causing a

peristaltic effect upon material in the line, and dispensing a precise unit of material from the device.